

526,193

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

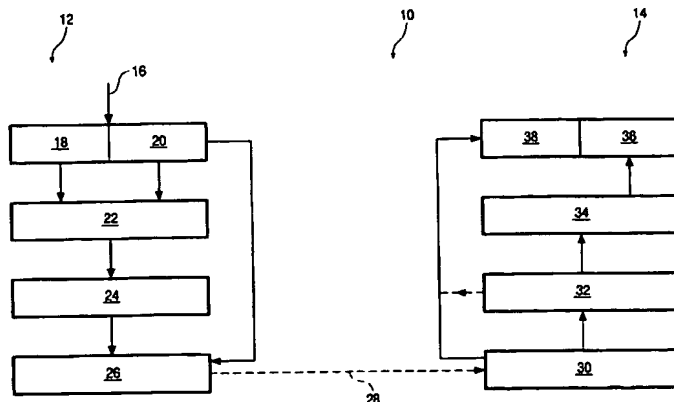


(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/023688 A1

- (51) International Patent Classification⁷: **H04J 3/06**, H04L 12/56, H04B 7/26
- (21) International Application Number: PCT/IB2003/003782
- (22) International Filing Date: 22 August 2003 (22.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: *05 Mar 03*
0220618.3 5 September 2002 (05.09.2002) GB
- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **MILLER-SMITH, Richard, M.** [GB/GB]; c/o Philips Intellectual Property & Standards, Cross Oak Lane, Redhill, Surrey RH1 5HA (GB).
- (54) Title: APPARATUS AND RELATED METHOD FOR DATA SYNCHRONIZATION ACROSS A WIRELESS NETWORK
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: The present invention provides for a transmitting means for transmitting data packets in a wireless network, wherein at least some of the data packets are arranged to include clock data for use at a receiving means in the network for clock reconstruction at the receiving means, the transmitting means including processing means and operating system means connected to a network controller for delivering the data packets to the network, wherein the transmitting means is arranged to identify packets arriving at the network controller and which require clock data, and wherein the network controller is arranged to insert the clock data within the said identified packet prior to transmission of the packet. Also provided is a system and method of synchronising the clock of a receiving means to a clock signal from a transmitting means in a wireless network, wherein the clock at the receiving means is reconstructed from a data packet delivered from the transmitting means and including the step of monitoring acknowledgement of receipt of the packet at the receiving means, and resending the said packet if receipt is not acknowledged, and including the step of inserting updated clock reference data in the packet prior to resending the packet.

WO 2004/023688 A1